CONTENTS

Vol. 141, No. 1, September 1983

Principal component analysis of Motokawa's data on wavelength dependence of retinal processes. *K. Iwama* 1

Ultrasonic endoscopy. *S. Asaki, K. Ota, N. Kanazawa, S. Ohara, H. Onodera and Y. Goto* 9

Quantitative analysis of tremor in Minamata disease. *H. Yamanaga* 13

Effects of nucleotides and nucleosides on the activity of cyclic AMP phosphodiesterase from rat brain. *M. Murakami, S. Miura, I. Itoh, N. Gotoh and H. Nakamichi* 23

Effects of pantethine and its metabolites on fatty acid oxidation in rat liver mitochondria. *N. Morisaki, N. Matsuoka, Y. Saito and A. Kumagai* 33

Effect of pantethine on fatty acid oxidation in microvessels of rat brain. *N. Morisaki, N. Matsuoka, K. Shirai, N. Sasaki, Y. Saito and A. Kumagai* 41

Dependency of O_2-affinity effects on O_2 consumption in the isolated rat heart. *T. Kugimiya, M.A. Gunst, M.B. Laver and M.A. Duvelleroy* 47

Characteristics of phospholipids associated with fibrins in partial thromboplastin test. *S. Ogawa, I. Kurokawa and T. Akino* 61

Human plasma ACTH, β-lipotropin and β-endorphin during delivery. *N. Furuhashi, T. Takahashi, T. Fukaya, H. Kono, O. Shinkawa and M. Suzuki* 71

Effects of long term intravenous administration of ethanol on rat pancreas. *S. Matsuno, K. Kano, K. Miyagawa, H. Yamauchi and T. Sato* 77

Effect of cimetidine on gastric mucosal barrier in dogs. *J. Kameyama, H. Miyakawa, I. Sasaki and T. Sato* 91

Cultivation of V79 cells in serum-free medium containing bovine serum albumin and the use of gelatin as an attachment factor. *M. Umeda, K. Noda, K. Tanaka, I. Yamane and Y. Matsuya* 99

Evidence for prolactin-releasing and release-inhibiting effects of melatonin, serotonin and arginine vasotocin. *K. Minato, K. Takahashi, N. Ikeno, M. Watanabe, H. Endo and H. Yamamoto* 107

Vol. 141, No. 2, October 1983

Mass screening for breast cancer. *R. Abe, A. Sakuma, K. Yoshida, T. Hariu, H. Kanno, K. Takahashi, N. Kumagai and T. Sato* 125

Effects of alcohol diet from the fetal period on lipid metabolism in rats. *H. Maekubo, T. Matsushima, Y. Tamura, M. Yamashiro, T. Yoshida, M. Sekine, J. Yoshida, H. Taneda, R. Ohya and T. Miyazaki* 133

Isolation and purification of Rh_0(D) antigen of human erythrocyte membrane and its serological property. *T. Yokoi, M. Iwasa and K. Sagisaka* 143

Sequential mutagenesis of drug resistance in *Streptococcus mutans* during synchronous replication. *H. Rikiishi and K. Kumagai* 155

Immunofluorescence studies on epidermal keratinization in some skin disorders with keratin antisera. *M. Hosokawa and S. Masu* 163

Effects of radiotherapy and chemotherapy on sister chromatid exchanges in peripheral lymphocytes of the patients with gynecologic cancer. *Z.-D. Xu, A. Yajima, Y. Abe, K. Soh, N. Ozawa, T. Takabayashi, S. Sato, S. Uehara and M. Suzuki* 175

Lipid metabolism in the aorta of daunomycin-induced nephrotic rats. *N. Morisaki, N. Matsuoka, M. Shinomiya, M. Mizobuchi, Y. Saito and A. Kumagai* 183

Effects of γ-oryzanol on lipid metabolism in rats fed high-cholesterol diet. *M. Shinomiya, N. Morisaki, N. Matsuoka, S. Izumi, Y. Saito, A. Kumagai, K. Mitani and S. Morita* 191

Low density lipoprotein-sialic acids in patients with non-insulin dependent diabetes mellitus. *Y. Maruhama, I. Hikichi, F. Saito, T. Hashimoto, H. Kaneko, K. Takahashi and I. Kaito* 199

Simultaneous measurement of human prolactin and growth hormone levels in maternal and fetal serum and amniotic fluid. *N. Furuhashi, T. Fukaya, H. Kono, O. Shinkawa, T. Takahashi and M. Suzuki* 207

Serological distinction of H antigen between saliva and red cell in forensic practice. *K. Sagisaka, H. Yamashita, M. Iwawa and T. Yokoi* 211

Immunochemical investigations of $Rh_0(D)$ activity detected in band 3 of red cell membrane. *T. Yokoi, M. Iwasa and K. Sagisaka* 217

Vol. 141, No. 3, November 1983

Three-dimensional visualization of Golgi-stained neurons by a projection x-ray microscope converted from a scanning electron microscope. *N. Takahashi, S. Takahashi, M. Kagayama and K. Yada* 249

Mass screening of urea cycle diseases: A new mass screening method of hyperornithinemia by using two coupling enzymes. *Y. Fujimura, T. Matsuzawa, M. Kawamura, K. Tada and K. Mizuno* 257

A new mass screening method for determining UDP-galactose in blood. *Y. Fujimura, M. Kawamura and H. Naruse* 263

Electrophysiological verification of the ulnar to median nerve communications in the hand and forearm. *I. Kimura, D.R. Ayyar and S.M. Lippmann* 269

Circadian rhythm of electrical activity and motility of the stomach in cats and their relation to sleep-wakefulness stages. *Y. Fujitani and M. Hosogai* 275

Phosphofructokinase deficiency associated with congenital nonspherocytic hemolytic anemia and mild myopathy: Biochemical and morphological studies on the muscle. *K. Tani, H. Fujii, S. Miwa, F. Imanaka, A. Kuramoto and H. Ishikawa* 287

Monocyte function in idiopathic nephrotic syndrome in childhood. *S. Waga, Y. Takahashi, M. Fujita, K. Nagata, T. Kuronuma and R. Aoyama* 295

Ecto-5′-nucleotidase activities in B lymphoblastoid cell lines at various stages of maturation. *S. Nakae, S. Tsuchiya, S. Katamine, T. Konno and K. Tada* 305

Morphometrical quantitation of pancreas endocrine cells in patients with carcinoma of the pancreas. *C.Y. Hayashida, K. Suzuki, H. Fujiya, M. Koizumi, T. Toyota and Y. Goto* 311

The effect of sulpiride administration on maternal and fetal plasma prolactin levels, and fetal growth in rats. *T. Fukaya, N. Furuhashi, H. Kono, O. Shinkawa, T. Takahashi and M. Suzuki* 323

Isolation and characterization of group B streptococci from genito-urinary tracts in Japan. *N. Yamane, M. Yuki and K. Kyono* 327

Dissociation of aggregated IgG and denaturation of monomeric IgG by acid treatment. *Y. Uemura* 337

Electromyographic assessment of fatiguability and recovery of orbicularis oculi in myasthenia gravis. *I. Kimura, D.R. Ayyar, G. Sato and K. Kogure* 351
Differences in the carbohydrate moieties of plasma and amniotic fluid fibronectins as revealed by crossed immunoaffinity electrophoresis with concanavalin A. *Y. Yamaguchi, M. Isemura, Z. Yosizawa, A. Sato and M. Suzuki* 359

Short Reports

Application of ultrasonic M-mode scanning and computer evaluation on urodynamics. *O. Nishizawa, T. Harada, I. Moriya, A. Ohya, S. Satoh, H. Nakamura, T. Fukuda, A. Matsuzaki and S. Tsuchida* 369
Percutaneous introduction of suprapubic double lumen catheter into bladder for urodynamic examination. *O. Nishizawa, A. Ohya, N. Kin, H. Nakamura, S. Satoh, I. Moriya, T. Harada and S. Tsuchida* 371

Vol. 141, No. 4, December 1983

Endoscopic hemostasis of gastrointestinal hemorrhage by local application of absolute ethanol: A clinical study. *S. Asaki, T. Nishimura, A. Satoh, S. Ohara, D. Shibuya, Y. Ogitsu and Y. Goto* 373
Combination therapy of gastric atypical epithelium and elevated type early gastric cancer with high frequency current and laser. *S. Asaki, A. Satoh, T. Nishimura, S. Ohara, D. Shibuya, H. Satoh and Y. Goto* 385
In vivo effects of cis-5, 8, 11, 14, 17-20: 5 (n-3) and cis-4, 7, 10, 13, 16, 19-22: 6 (n-3) on serun lipoproteins, platelet aggregation, and lipid metabolism in the aorta of rats. *N. Morisaki, M. Shinomiya, N. Matsuoka, Y. Saito and A. Kumagai* 397
Studies on the antigenicity of glucagon. *T. Kasama, Y. Aida, K. Oshiro, M. Goto, M. Uchida and H. Ohkuni* 407
Acute effects of MK421, a new angiotensin coverting enzyme inhibitor, in man. *Y. Kasai, K. Abe, M. Yasujima, J. Tajima, M. Seino, S. Chiba, K. Sato, T. Goto, K. Omata, M. Tanno and K. Yoshinaga* 417
Zymosan-induced chemiluminescence of granulocytes in incubated human whole blood. The role of platelets. *T. Kato, H. Wokalek, E. Schöpf, I. Hovestadt, M. Ernst, E. Rietschel and H. Fischer* 423
Suppression of zymosan-induced chemiluminescence of whole blood by conjugates composed of drug, guinea pig skin extracts and sera from patients with suspicious drug eruptions. *T. Kato, T. Terui, Y. Kuramoto and T. Fujiyata* 433
Pancreatic polypeptide and insulin contents in diabetic and nondiabetic human pancreas and their relationship to the stability of the fasting serum glucose. *Y. Tasaka, S. Inoue, K. Marumo and Y. Hirata* 443
Therapy for cervical cancer detected by mass screening. *A. Yajima, S. Sato, H. Higashiiwai, T. Mori, Y. Wada, R. Yamauchi, S. Uehara and M. Suzuki* 451
Diabetic scleredema. *T. Toyota, M. Umezu, N. Oikawa, R. Sanoyama, S. Suzuki, H. Suzuki, Y. Nakajima and Y. Goto* 457
A follow-up study of painful diabetic neuropathy: physical and psychological aspects. *Y. Takahashi and Y. Hirata* 463
A case of poisoning by a mixture of methanol and ethylene glycol. *H. Arai, H. Ikeda, M. Ichiki, M. Iino, M. Kumai and M. Ikeda* 473
Response of extrapancreatic glucagon to glycemic changes under chronic insulin deficiency in dogs. *T. Kobayashi, J. Nihei and A. Ohneda* 481

Effects of noradrenaline and acetylcholine on ureteral peristalsis. *T. Morita, T. Suzuki, S. Kondo and S. Tsuchida* 489

N-Acetyl-β- glucosaminidase activity in serum of patients with epidermolysis bullosa. *M. Igarashi* 491